15. Imutation % % is 6 times

Step 1

C_1 → L_1

Itemset
milk
Bread
Butter
beer

Itemset	Sup
milk	9
Bread	12
Butter	7
beer	5

Step 2

C_2 → L_2

Itemset
(milk, Bread)
(milk, Butter)
(bread, butter)

Itemset	Sup
(milk, Bread)	6
(milk, butter)	5
(bread, butter)	6

Step 3

C_3 → L_3

Itemset
(milk, bread, b.ter)

Itemset	Sup
(milk, bread, b.ter)	4

★ Candidate rules come from L_2

- milk -> Bread

- bread -> Milk

- bread -> butter

- butter -> bread

Rule	set	cnt	set	cnt	Confidence
If milk then bread	milk	9	milk and bread	6	$\frac{6}{9} = 66.6\%$
If bread then milk	bread	10	bread and milk	6	$\frac{6}{10} = 60\%$
If bread then butter	bread	10	bread and butter	6	$\frac{6}{10} = 60\%$
If butter then bread	butter	7	butter and bread	6	$\frac{6}{7} = 85.7\%$

L If we want Confidence > 70%

∴ the rule is :-

If butter then bread